

Second Semester Review Worksheet

Name _____

Period _____ Date _____

1. Define the following terms.

a. mutation:

b. ectotherm:

c. endotherm:

d. homologous:

e. hominid:

f. divergence:

g. half-life:

h. species:

i. bipedal locomotion:

j. autotroph:

k. heterotroph:

l. plasmid:

m. lichen:

n. autotroph:

o. posterior:

p. cotyledon:

q. hermaphrodite:

r. saprophyte:

s. parasite:

t. bacteriophage:

u. open circulatory system:

2. List Darwin's ideas on evolution.

3. List the three basic parts of a nucleotide.

4. List three differences between DNA and RNA.

DNA _____

RNA _____

5. Describe the process of Replication. (*Include when, where, and why.*)

6. Describe the process of Transcription. (*Include when, where, and why.*)

7. Describe the process of Translation. (*Include when, where, and why.*)

8. List the three types of RNA and their function.

9. Proteins are composed of monomers called... _____

10. The synthesis of proteins is directed by... (*Segments of DNA*) _____

11. A codon is... _____

12. How many bases in a row are needed to instruct the production of protein composed of 300 amino acids? _____

13. List the eight classification categories from largest to smallest.

14. List three characteristic and two examples for each of the six classification kingdoms.

a.

b.

c.

d.

e.

f.

15. List the three types of bacteria and their shapes

- a.
- b.
- c.

16. List three characteristics of gymnosperms.

17. List three characteristics of angiosperms.

18. Explain how monocots and dicots differ.

19. Complete the following table using the six phyla of invertebrates listed in Chapters 27-29

common name	# of digestive openings	# of tissue layers	circulatory system (no / open / closed)	Reproductive system (Separate sexes / hermaphrodite)	Respiratory (type)

20. Complete the table below using the five classes of arthropods.

Common name/Examples	List body sections	# of antennae	# of legs	Respiration	Mouthparts

21. Draw a fish and label the four body areas typical of animals with bilaterally symmetry.

22. List the names of common Echinoderms.

23. List three adaptations that have allowed bony fish to become more successful than other fish..

a.

b.

c.

d.

24. Complete the following table using information about the seven classes of vertebrates.

Class	Outer coverings	# of Heart Chambers	Fertilization (internal/ext.)	Therm (warm/cold)	Other Features